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OM protein - protein search, using sw model

Run on: March 1, 2001, 15:49:22 ; search time 140.11 seconds
(whithout alignments)
5.767 Million cell updates/sec

Searched: 174772 seqs, 17957048 residues

Total number of hits satisfying chosen parameters: 174772

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Result NO.	Score	Query	Length	DB ID	Description
1	76.5	30.4	587	1 US-07-955-905A-23	Sequence 23, Appl
2	70.5	28.0	566	1 US-07-955-905A-2	Sequence 2, Appl
3	70.5	28.0	566	1 US-07-955-905A-22	Sequence 22, Appl
4	67	26.6	218	3 US-08-985-526-1	Sequence 1, Appl
5	67	26.6	239	4 PCT-US93-01652-1	Sequence 1, Appl
6	67	26.6	441	3 US-08-985-526-3	Sequence 3, Appl
7	67	26.6	1170	1 US-08-313-288B-20	Sequence 20, Appl
8	59.5	23.6	2710	2 US-08-568-459A-12	Sequence 12, Appl
9	59.5	23.6	2710	2 US-08-487-826B-12	Sequence 12, Appl
10	59.5	23.6	3060	2 US-08-487-826B-14	Sequence 14, Appl
11	55	21.8	816	1 US-08-190-802A-54	Sequence 54, Appl
12	53.5	21.2	450	1 US-07-712-939B-1	Sequence 1, Appl
13	52.5	20.8	1172	1 US-08-313-288B-19	Sequence 19, Appl
14	52	20.6	34	2 US-08-822-561-1	Sequence 1, Appl
15	51.5	20.4	126	1 US-08-44-547-3	Sequence 3, Appl
16	51.5	20.4	147	1 US-08-044-547-1	Sequence 1, Appl
17	50.5	20.0	94	3 US-09-147-550-31	Sequence 31, Appl
18	50.5	20.0	94	3 US-09-147-550-36	Sequence 36, Appl
19	49.5	19.6	79	2 US-08-465-380-8	Sequence 8, Appl
20	49.5	19.6	79	2 US-08-480-478-37	Sequence 37, Appl
21	49.5	19.6	79	2 US-08-486-397-8	Sequence 8, Appl
22	49.5	19.6	79	2 US-08-486-399-8	Sequence 8, Appl
23	49.5	19.6	79	2 US-08-461-965-8	Sequence 8, Appl
24	49.5	19.6	79	2 US-08-326-110A-37	Sequence 37, Appl
25	49.5	19.6	79	2 US-08-634-641-8	Sequence 8, Appl
26	49.5	19.6	79	3 US-09-249-471-8	Sequence 8, Appl
27	49.5	19.6	79	3 US-09-249-472-8	Sequence 8, Appl
28	49.5	19.6	79	3 US-09-451-8	Sequence 8, Appl

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

RESULT 1
US-07-955-905A-23
; sequence 23, Application US/07955905A
; Patent No. 5779433

GENERAL INFORMATION:

APPLICANT: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND
TITLE OF INVENTION: PRECURSOR
NUMBER OF SEQUENCES: 28

COMPUTER READABLE FORM:
COMPUTER: FLOPPY disk
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: SYSTEM: PC-DOS/MS-DOS
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/955, 905A
FILING DATE: 21-JAN-1993
CLASSIFICATION: 435

INFORMATION FOR SEQ ID NO: 23:

SEQUENCE CHARACTERISTICS:
LENGTH: 587 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
ORIGINAL SOURCE:
ORGANISM: Gossypium hirsutum

FEATURE:
NAME/KEY: Protein
LOCATION: 1..587
OTHER INFORMATION: /note= "Vicilin from G. hirsutum"
US-07-955-905A-23

Query Match 30.4%; Score 76.5; DB 1; Length 587;
Best Local Similarity 41.7%; Pred. No. 0.064; Mismatches 12; Indels 1; Gaps 1;

Matches 15; Conservative 8; Sequence 1, Appl
Sequence 19, Appl
Sequence 2, Appl
Sequence 15, Conservatve 8; Mismatches 12; Indels 1; Gaps 1;

Qy 2 EFDQREVEECKRQMCQLETSQMRRCVSVQCDRKEE 37
Db 80 EDPQRVVEECQECRQE-ERQRPOCQCQRCIKRFEQ 114

RESULT 2
US-07-955-905A-2
; Sequence 2, Application US/07955905A
; Patent No. 5779433

GENERAL INFORMATION:

APPLICANT:
TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND
NUMBER OF SEQUENCES: 28

ALIGNMENTS

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US-07/955,905A
; FILING DATE: 21-JAN-1993
; CLASSIFICATION: 435
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 566 amino acids
; TYPE: amino acid
; MOLECULE TYPE: protein
; US-07-955-905A-2

Query Match 28.0%; Score 70.5%; DB 1; Length 566;
Best local similarity 32.4%; Pred. No. 0; 33; Matches 11; Conservative 11; Mismatches 11; Indels 1; Gaps 1;

QY 5 ROBYECKERQCMOLET-SGQMRCVSVQCDKRRFEE 37
Db 39 RQYEEOCQRCSEATEEREQEQCQRCERKE 72

RESULT³ 3
US-07-955-905A-22
; Sequence 22, Application US/07955905A
; Patent No. 5770433
; GENERAL INFORMATION:
; APPLICANT: RECOMBINANT 47 AND 31 kD COCOA PROTEINS AND
; TITLE OF INVENTION: PRECURSOR
; NUMBER OF SEQUENCES: 28
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, version #1.25 (BPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US-07/955,905A
; FILING DATE: 21-JAN-1993
; CLASSIFICATION: 435
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 566 amino acids
; TYPE: amino acid
; TOPology: linear

RESULT⁴
US-07-955-905A-22

Query Match 28.0%; Score 70.5%; DB 1; Length 566;
Best Local Similarity 32.4%; Pred. No. 0; 33; Matches 11; Conservative 11; Mismatches 11; Indels 1; Gaps 1;

QY 5 ROBYECKERQCMOLET-SGQMRCVSVQCDKRRFEE 37
Db 39 RQYEEOCQRCSEATEEREQEQCQRCERKE 72

RESULT⁴
US-08-985-526-1

Query Match 26.6%; Score 67; DB 3; Length 218;
Best Local Similarity 39.5%; Pred. No. 0; 33; Matches 15; Conservative 6; Mismatches 11; Indels 6; Gaps 2;

QY 13 RQCMOLE---TSGQMRC-VSQCDKRRFEEIDWRY 44
Db 104 RSCDSLNNRCGGSSVQRTCHIQECOKRFQDGGSW 141

RESULT⁵
US-08-985-526-1

Query Match 26.6%; Score 67; DB 3; Length 218;
Best Local Similarity 39.5%; Pred. No. 0; 33; Matches 15; Conservative 6; Mismatches 11; Indels 6; Gaps 2;

QY 13 RQCMOLE---TSGQMRC-VSQCDKRRFEEIDWRY 44
Db 104 RSCDSLNNRCGGSSVQRTCHIQECOKRFQDGGSW 141

RESULT⁵
US-08-985-526-1

Query Match 26.6%; Score 67; DB 3; Length 218;
Best Local Similarity 39.5%; Pred. No. 0; 33; Matches 15; Conservative 6; Mismatches 11; Indels 6; Gaps 2;

QY 13 RQCMOLE---TSGQMRC-VSQCDKRRFEEIDWRY 44
Db 104 RSCDSLNNRCGGSSVQRTCHIQECOKRFQDGGSW 141

GENERAL INFORMATION:
; APPLICANT: Mixon, James A.
; TITLE OF INVENTION: CARRIER:DNA COMPLEXES CONTAINING DNA
; TITLE OF INVENTION: ENCODING ANTI-ANGIOGENIC PEPTIDES AND THEIR USE IN GENE
; TITLE OF INVENTION: THERAPY
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Connolly, Bove, Lodge, & Hutz
; STREET: 1220 Market Street, P.O. Box 2207
; CITY: Wilmington
; STATE: Delaware
; COUNTRY: U.S.A.
; ZIP: 19899
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US-08/985,526
; FILING DATE: 16-JUL-1996
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/608,845
; FILING DATE: 16-JUL-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: McMotiw Jt., Robert G.
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (302) 658-5613
; TELEFAX: (302) 658-9141
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 amino acids
; TYPE: amino acid
; TOPology: linear

RESULT⁵
US-08-985-526-1

GENERAL INFORMATION:
; APPLICANT: Mixon, James A.
; TITLE OF INVENTION: CARRIER:DNA COMPLEXES CONTAINING DNA
; TITLE OF INVENTION: ENCODING ANTI-ANGIOGENIC PEPTIDES AND THEIR USE IN GENE
; TITLE OF INVENTION: THERAPY
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Connolly, Bove, Lodge, & Hutz
; STREET: 1220 Market Street, P.O. Box 2207
; CITY: Wilmington
; STATE: Delaware
; COUNTRY: U.S.A.
; ZIP: 19899
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/01652
; FILING DATE: 19930222
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US-08/985,526
; FILING DATE: 16-JUL-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: McMotiw Jt., Robert G.
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (302) 658-5613
; TELEFAX: (302) 658-9141
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 amino acids
; TYPE: amino acid
; TOPology: linear

RESULT⁵
US-08-985-526-1

GENERAL INFORMATION:
; APPLICANT: Bouck, Noel P.
; APPLICANT: Polvarini, Peter J..
; APPLICANT: Good, Deborah J.
; APPLICANT: Frazier, William A.
; TITLE OF INVENTION: Method and Composition for
; TITLE OF INVENTION: Inhibiting Angiogenesis
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Tilton, Fallon, Lungmus & Chestnut
; STREET: 100 South Wacker Drive, Suite 960
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606-4002
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/01652
; FILING DATE: 19930222

CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US/07/841,656

FILING DATE: 24-FEB-1992
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US/07/464,369

FILING DATE: 12-JAN-1990
ATTORNEY/AGENT INFORMATION:
NAME: Fentress, Susan B.

REGISTRATION NUMBER: 31,327

REFERENCE/DOCKET NUMBER: 92005-PCT

TELECOMMUNICATION INFORMATION:

TELEPHONE: (312)-456-8000

TELEFAX: (312)-456-7776

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 239 amino acids

TYPE: AMINO ACID

STRANDEDNESS: unknown

TOPOLOGY: unknown

MOLECULE TYPE: peptide

PCT-US93-016522-1

Query Match 26.6%; Score 67; DB 3; Length 441;
Best local Similarity 39.5%; Pred. No. 0.68; Mismatches 11; Indels 6; Gaps 2;

Matches 15; Conservative 6; Mismatches 11; Indels 6; Gaps 2;

RESULT 7
US-08-313-288B-20
; Sequence 20, Application US/08313288B
; Patent No. 5750502
; GENERAL INFORMATION:
; APPLICANT: JESSELL, Thomas M. and Avihu Klar
; TITLE OF INVENTION: NOVEL SECRETED PROTEIN AND USES OF A
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036

RESULT 7
Qy 13 RQCMOLE---TSGQMRC-VSQCDKRFEEIDWSKY 44
Db 93 RSCDSLNNRCEGSSVQTRTCHTQECDRFKQDGGSWSHW 130

RESULT 7
US-08-313-288B-20
; Sequence 20, Application US/08313288B
; Patent No. 5750502
; GENERAL INFORMATION:
; APPLICANT: JESSELL, Thomas M. and Avihu Klar
; TITLE OF INVENTION: NOVEL SECRETED PROTEIN, F-SPONDIN
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036

RESULT 7
Qy 13 RQCMOLE---TSGQMRC-VSQCDKRFEEIDWSKY 44
Db 93 RSCDSLNNRCEGSSVQTRTCHTQECDRFKQDGGSWSHW 130

RESULT 7
US-08-313-288B-20
; Sequence 20, Application US/08313288B
; Patent No. 5750502
; GENERAL INFORMATION:
; APPLICANT: JESSELL, Thomas M. and Avihu Klar
; TITLE OF INVENTION: NOVEL SECRETED PROTEIN, F-SPONDIN
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036

RESULT 7
US-08-313-288B-20
; Sequence 20, Application US/08313288B
; Patent No. 5750502
; GENERAL INFORMATION:
; APPLICANT: JESSELL, Thomas M. and Avihu Klar
; TITLE OF INVENTION: NOVEL SECRETED PROTEIN, F-SPONDIN
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036

RESULT 7
US-08-313-288B-20
; Sequence 20, Application US/08313288B
; Patent No. 5750502
; GENERAL INFORMATION:
; APPLICANT: JESSELL, Thomas M. and Avihu Klar
; TITLE OF INVENTION: NOVEL SECRETED PROTEIN, F-SPONDIN
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036

RESULT 7
US-08-313-288B-20
; Sequence 20, Application US/08313288B
; Patent No. 5750502
; GENERAL INFORMATION:
; APPLICANT: JESSELL, Thomas M. and Avihu Klar
; TITLE OF INVENTION: NOVEL SECRETED PROTEIN, F-SPONDIN
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 391-0526

TELEX:

INFORMATION FOR SEQ ID NO: 20:

SEQUENCE CHARACTERISTICS:

LENGTH: 1170 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

RESULT 7
US-08-313-288B-20

Query Match 26.6%; Score 67; DB 1; Length 1170;
Best local Similarity 39.5%; Pred. No. 1.8; Mismatches 11; Indels 6; Gaps 2;

Matches 15; Conservative 6; Mismatches 11; Indels 6; Gaps 2;

RESULT 8
US-08-568-459A-12
; Sequence 12, Application US/08568459A
; Patent No. 5843306
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun

RESULT 8
US-08-568-459A-12
; Sequence 12, Application US/08568459A
; Patent No. 5843306
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun

TELECOMMUNICATION INFORMATION:

TELEPHONE: (312) 658-5613

TELEX:

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 441 amino acids

TYPE: amino acid

TOPOLOGY: linear

RESULT 8
US-08-568-459A-12
; Sequence 12, Application US/08568459A
; Patent No. 5843306
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun

TELECOMMUNICATION INFORMATION:

TELEPHONE: (312) 658-5613

TELEX:

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 441 amino acids

TYPE: amino acid

TOPOLOGY: linear

RESULT 8
US-08-568-459A-12
; Sequence 12, Application US/08568459A
; Patent No. 5843306
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun

OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/313,288B
 FILING DATE: January 5, 1995
 CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
 NAME: White, John P.
 REGISTRATION NUMBER: 26,678
 REFERENCE/DOCKET NUMBER: 40028-A-PCIN-US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 270-0000
 TELEX: (212) 391-0526
 INFORMATION FOR SEQ ID NO: 19:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1172 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: peptide

RESULT 14
 S-08-822-561-1
 Sequence 1, Application US/08/22561
 Patent No. 590587

GENERAL INFORMATION:
 APPLICANT: Duvick, John P.
 APPLICANT: Rod, Tracy A.
 APPLICANT: Rao, Aragula G.
 TITLE OF INVENTION: ANTIMICROBIAL PEPTIDES AND PLANT DISEASE
 TITLE OF INVENTION: RESISTANCE BASED THEREON
 NUMBER OF SEQUENCES: 3

CORRESPONDENCE ADDRESS:
 ADDRESSEE: PIONEER HI-BRED INTERNATIONAL, INC.
 STREET: 700 Capital Square, 400 Locust Street
 CITY: Des Moines
 STATE: Iowa
 COUNTRY: USA
 ZIP: 50309

MEDIUM TYPE: FLOPPY disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/044,547
 FILING DATE: 17-MAY-1995
 CLASSIFICATION: 514
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 07/594,917
 FILING DATE: 09-OCT-1990

ATTORNEY/AGENT INFORMATION:
 NAME: Parr, Richard S.
 REGISTRATION NUMBER: 32,586
 REFERENCE/DOCKET NUMBER: 18053
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (908) 594-4958
 TELEX: 138425

INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 125 amino acids
 TYPE: amino acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 MOLECULE TYPE: protein

RESULT 15
 US-08-822-561-1
 Query Match 20.8%; Score 52.5; DB 1; Length 1172;
 Best Local Similarity 27.3%; Pred. No. 1.1e+02; Mismatches 6; Indels 2; Gaps 1;
 Matches 15; Conservative 6; MisMatches 17; Indels 17; Gaps 2;

Qy 10 ECKRQCMQ-----LETSQMRRRC 27
 Db 6 ECRRQCLRRHEGQPWETQECMRC 29

Query Match 20.6%; Score 52; DB 2; Length 34;
 Best Local Similarity 45.8%; Pred. No. 3.2; Mismatches 3; Indels 6; Gaps 1;
 Matches 11; Conservative 3; MisMatches 4; Indels 6; Gaps 1;

Qy 10 ECKRQCMQ-----LETSQMRRRC 27
 Db 6 ECRRQCLRRHEGQPWETQECMRC 29

Query Match 20.4%; Score 51.5; DB 1; Length 126;
 Best Local Similarity 24.0%; Pred. No. 14; Mismatches 9; Indels 19; Gaps 3;
 Matches 12; Conservative 10; MisMatches 11; Indels 19; Gaps 3;

Qy 9 ECKRQC-----MOLETSQMRRRCVSQCDKRFREEDIDS--RYD 45
 Db 69 DECRKMCBSAVERPSCYLQINTE----TNECYRNNEGDTWSSLQYD 112

INFORMATION FOR SEQ ID NO: 1:

ATTORNEY/AGENT INFORMATION:
 NAME: Yates, Michael J.
 REGISTRATION NUMBER: 36,063
 REFERENCE/DOCKET NUMBER: 0124C
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (515) 248-4800
 TELEFAX: (515) 248-4844

INFORMATION FOR SEQ ID NO: 1:

Fri Mar . 3 09:28:47 2001

us-09-331-631a-1_copy_29_73.rai

Page 7

Search completed: March 1, 2001, 15:49:23
Job time: 368 sec

